

**M 4.5, 13 km SW of Volcano, Hawaii**

Origin Time: 2023-12-24 02:27:46 UTC (Sat 16:27:46 local)  
Location: 19.3499° N 155.3583° W Depth: 28.7 km

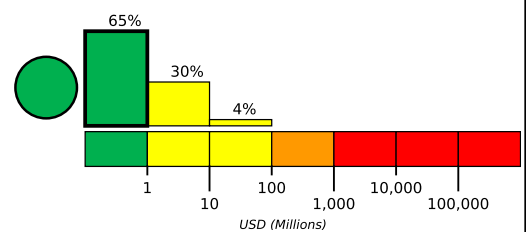
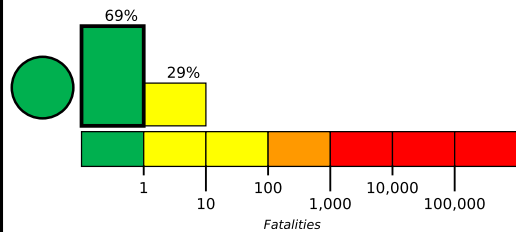
**PAGER  
Version 3**

Created: 3 days, 14 hours after earthquake

**Estimated Fatalities**

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

**Estimated Economic Losses**

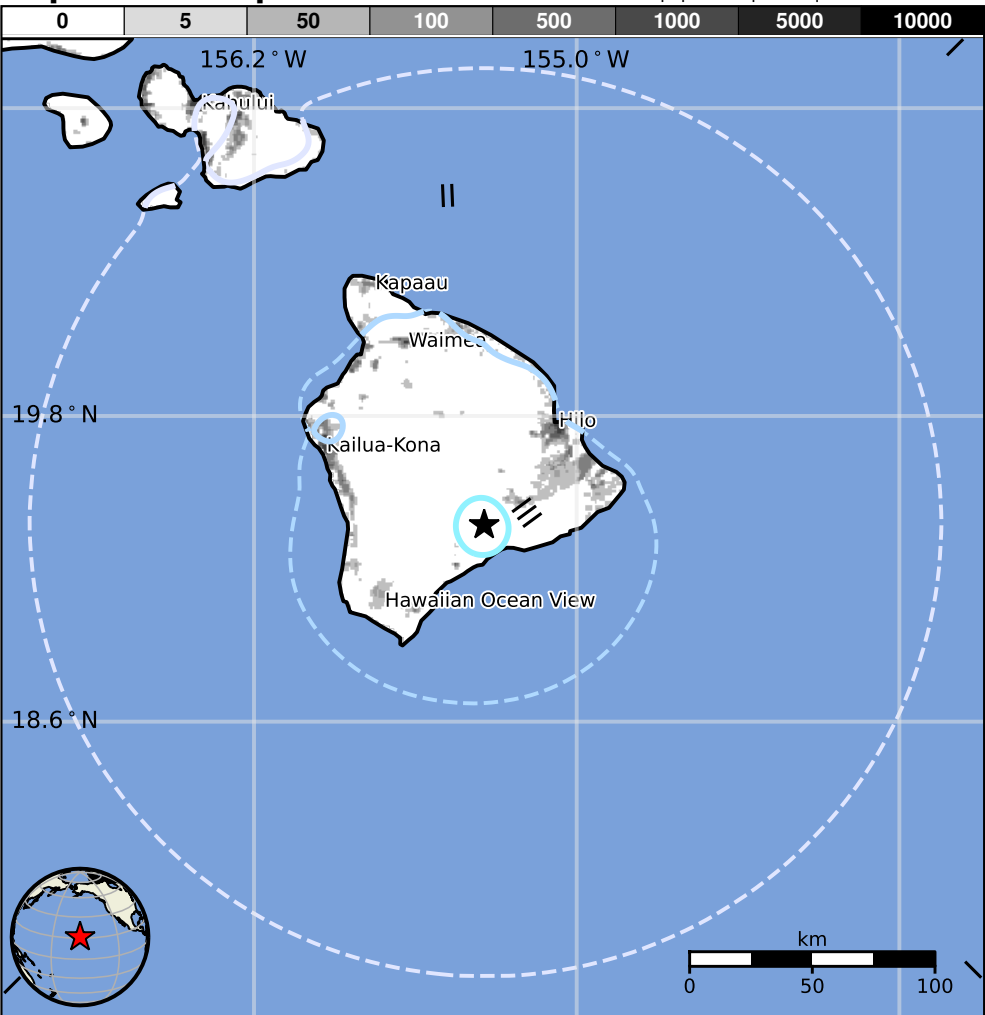


**Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k=x1000)		68k*	293k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

**Population Exposure**



**Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

**Historical Earthquakes**

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1973-04-26	71	6.2	VII(74k)	0
2006-10-15	87	6.7	VIII(15k)	0
1975-11-29	35	7.2	IX(30k)	2

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

**Selected City Exposure**

from GeoNames.org

MMI	City	Population
III	Mountain View	4k
III	<b>Hawaiian Ocean View</b>	<b>4k</b>
III	Fern Acres	2k
III	Hawaiian Acres	3k
III	Pahala	1k
III	Kurtistown	1k
III	<b>Kailua-Kona</b>	<b>12k</b>
III	<b>Hilo</b>	<b>43k</b>
II	<b>Kahului</b>	<b>26k</b>
II	Kihei	21k
I	Wailuku	15k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.  
<https://earthquake.usgs.gov/earthquakes/eventpage/hv73695052#pager>

Event ID: hv73695052